

Patents Recently Issued to IBM Inventors

December 1966 and January 1967

December 1966

Film Record Cards and Method for Making the Same	E. P. Kollar	3,289,344
Rotary Cutting Apparatus	O. D. Johnson and D. W. Leach	3,289,513
High Speed Printer with Variable Cycle Control	E. M. Bloom, Jr. and G. Krysiuk	3,289,576
Automatic Sequence Typing Mechanism for Printing Words Upon Depression of a Single Key	J. O. Schaefer	3,289,804
Card Feeding Mechanism	O. D. Johnson and D. W. Leach	3,290,042
Electrical Resolver Means	G. V. A. Malmros	3,290,495
Threshold Logic Circuitry Producing Output on Amplitude Coincidence	I. G. Akmenkalns	3,290,517
Program Control for Data Processing Machine	R. E. Abernathy	3,290,655
Associative Memory for Subroutines	A. B. Lindquist	3,290,656
Byte Decoder	W. R. Lamoureux	3,290,671
Record Card Stacking Apparatus	D. P. Darwin and W. L. Wilcox	3,291,485
Process of Making Tunnel Diodes that Results in a Peak Current that is Maintained Over a Long Period of Time	J. H. Butler and D. DeWitt	3,291,658
Parametric Oscillator Data Shifting Apparatus	G. Constantine, Jr.	3,292,001
Energy Conserving Circuit for Capacitive Load	K. M. Kosanke, W. W. Kulcke and E. Max	3,292,091
Identification and Comparison Apparatus for Contour Patterns such as Fingerprints	D. A. Bourne	3,292,149
Memory Expansion	G. L. Barnes, J. R. Greaves, J. L. Toepfer and M. A. Muscatell	3,291,151
Data Transmission Mode	F. L. Post	3,292,165
Method of Fabricating Microminiature Functional Components	R. D. McNutt, E. M. Davis, Jr. and A. H. Mones	3,292,240
Hierarchical Search System	R. B. Johnson and R. J. Wohl	3,292,489
Print Head Controls Causing Overtravel of Head at Left End	V. C. Martin	3,292,530
Pneumatic Carrier Accessing System	B. Junge and R. A. Stauffer	3,292,878
High Speed Antistatic Magnetic Member	R. S. Haines	3,293,066
Microelectronic Capacitor Material and Method of Fabrication	H. D. Kaiser and A. H. Mones	3,293,077
Semiconductor Device Fabrication	J. B. Gunn	3,293,092
Transmission Systems	E. Hopner and H. R. Ulander	3,293,361
Conference Communications System Employing Time Division Multiplex	E. N. Schroeder	3,293,369
Communication System Utilizing Frequency Differential Time Delay	E. Hopner	3,293,376
Record Transport Device	C. L. Barcia	3,293,414
Data Processing Input Apparatus	M. Fiehl	3,293,415
Computer with Compatible Multiplication and Division	S. H. Pitkowsky and J. H. Shelly	3,293,420
Divider Circuit Including Pyramid Arrangement of Adders and Subtractors	J. W. Dieffender	3,293,421
Parametric Tunnel-Diode Amplifier Frequency Converter Using Pump Harmonic	P. L. Fleming	3,293,447
Relative Magnitude Detector	L. P. Horwitz and O. Mond	3,293,452
System for Controlling the Sampling of Serially Received Signal	A. Mazure, A. C. Ruocchio, L. L. Stickler, L. A. Tate and W. D. Van Gieson, Jr.	3,293,555
Elements	G. J. Fan	3,293,564
Conical Energy Reflecting Coupling Device	W. A. Hardy	3,293,565
Laser Imaging Employing a Degenerate Optical Cavity	A. P. Mullery and R. F. Schauer	3,293,615
Current Addressing System	A. P. Mullery and R. F. Schauer	3,293,616
Computer Instruction Sequencing and Control System	H. P. Luhn	3,293,619
Information Retrieval	W. D. Pricer and N. G. Vogl, Jr.	3,293,622
Termination for Combined Bit and Sense Windings	R. F. Elfant	3,293,624
Non-Destructive Readout Magnetic Memory	R. E. Thome	3,293,626
Coincident Current Readout Digital Storage Matrix	R. P. Auyang and E. J. Wroblewski	3,293,627
Magnetic Reproducing System Utilizing Two Overlapped Heads to Center on One Track	D. D. Roshon, Jr. and T. Young	3,293,652
Selective Piercing of Sheet Material	G. A. Luning	3,293,996
Film Record Cards and Method and for Making the Same	L. I. Maissel	3,294,661
Process of Coating, Using a Liquid Metal Substrate Holder	M. J. Vogel and J. W. Brookman	3,294,701
Method of Preparing Fluorescent Rare Earth Compounds	W. A. Hewett, J. D. Michaelson and J. F. Schimscheimer	3,294,763
Organic Compounds and Method of Making Same	C. S. Jenkins and N. K. Perkins	3,294,956
Magnetic Ledger Card Machine		

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Light Deflection Device	H. Fleisher, T. J. Harris and E. Shapiro	3,295,912
Device for Interconnecting Terminals on a Back-Panel	F. C. Parry	3,296,362
Non-Linear Optical System	A. W. Lohmann	3,296,368
Speech Analyzing System	G. L. Clapper	3,296,374
Data Recording and Printing Apparatus Capable of Responding to Changed Format.	D. E. Sims	3,297,124
Transport Mechanism for Flexible Materials	L. Licht, D. E. Brickl and B. H. Indergard	3,297,221
Method for Producing Organic Plasma and for Depositing Polymer Films	R. A. Connell and L. V. Gregor	3,297,465
Process for Epitaxial Growth of Semiconductor Single Crystals	A. Reisman	3,297,501
Method of Bonding.	R. W. Bowers	3,297,855
Optical Traveling Wave Parametric Devices	R. L. Garwin, W. A. Hardy and R. W. Landauer	3,297,875
Transversal Filter Having a Tapped and an Untapped Delay Line of Equal Delay, Concatenated to Effectively Provide Sub-Divided Delays Along Both Lines.	H. L. Blasbalg	3,297,951
Apparatus for Resolving Space Curve Slopes Into Angular Sectors	E. C. Greanias and R. J. Norman	3,297,988
Data Processing and Accounting System	W. L. McDonald, P. J. DeGeorge, J. R. Stewart and R. H. Thurmond	3,297,992
Apparatus for Generating Information Regarding the Spatial Distribution of a Function.	G. L. Clapper	3,297,993
Thick Film Read-Only Memory	R. E. Matick	3,297,005
Clutch and Brake Mechanism With Energy Storing Means.	J. E. Shepard	3,298,485
Apparatus for Connecting a Multi-Channel Data Processor With a Plurality of Telephone Lines	P. B. Bandy	3,299,210
Multiple-Input Memory Accessing Apparatus	G. F. Steigerwalt, Jr.	3,299,261
Wide-Band Transformer Having Neutralizing Winding	H. T. Lee	3,299,384
Multiple Access Delay Structures	C. A. Isberg	3,299,406
Data Filing System	J. R. Evans	3,299,410
Variable Gap Filing System	A. J. Capozzi and R. A. Jones	3,299,411
Remote Terminal Display System	R. C. Treseder	3,299,418
Method of Covering the Surfaces of Objects with Protective Glass Jackets and the Objects Produced Thereby	J. A. Perri, J. Riseman and R. L. Ruggles, Jr.	3,300,339
Apparatus for Testing Binary-Coded Decimal Arithmetic Digits by Binary Parity Checking Circuits	N. C. Deng, S. L. Lindauer and G. T. Paul	3,300,625
Schmitt Trigger With Active Collector to Base Coupling.	R. L. Delanoy and G. J. Laurer	3,300,654
Compatible Packaging of Miniaturized Circuit Modules	A. H. Johnson, W. R. McConnell and P. R. Schulz	3,300,686
Data Register with Particular Intrastage Feedback and Transfer Means Between Stages to Automatically Advance Data	A. Cutaia	3,300,724
Message Exchange System Utilizing Time Multiplexing and a Plurality of Different Sized Revolvers	H. G. Hochmann	3,300,763
Controlled Current Amplitude Energizing System.	A. W. Vinal	3,300,772
Epitaxial Reactor Apparatus	E. G. Grochowski, M. Ranaldi, R. S. Schwartz and W. H. White	3,301,213
Method for the Synthesis of Gallium Phosphide	J. A. Kucza and G. Mandel	3,301,637
Modular Circuit Package Utilizing Solder Coated Areas and Solder Reflow Joints	R. N. Jackson and W. R. Maclay	3,302,067
Apparatus and Method for Testing Logic Circuits and the Like by the Comparison of Test Output Patterns with Pre-Programmed Standard Patterns	H. E. Jones	3,302,109
Traffic Light Control Buffer	R. A. Jenson and W. J. Levine	3,302,170
Message Routing System	J. A. McLaughlin	3,302,176
Information Retrieval System	E. J. Raser and A. S. Lett	3,302,186